

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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irst-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	No labeling applicable 2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS-US No data available SECTION 3: Composition/informa Mixture Name Eugenol Geraniol Phenethyl Propionate SECTION 4: First aid measures First-aid measures after inhalation First-aid measures after eye contact First-aid measures after ingestion	Product identifier (CAS No) 97-53-0 (CAS No) 106-24-1 (CAS No) 122-70-3 s : Never give anything by mouth to an unich (show the label where possible). : Assure fresh air breathing. Allow the label where possible is the same warm water rinse. : Rinse immediately with plenty of water persist. : Rinse mouth. Do NOT induce vomitin	22.25 9.5 9.5 nconscious person. I person to rest. Il exposed skin area er. Obtain medical att	Not classified Not classified Not classified If you feel unwell, seek medical advid with mild soap and water, followed to the tention if pain, blinking or redness	
·	No labeling applicable 2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS-US No data available SECTION 3: Composition/information Eugenol Geraniol Phenethyl Propionate SECTION 4: First aid measures First-aid measures after inhalation First-aid measures after eye contact First-aid measures after eye contact	Product identifier (CAS No) 97-53-0 (CAS No) 106-24-1 (CAS No) 122-70-3 s : Never give anything by mouth to an u (show the label where possible). : Assure fresh air breathing. Allow the label where possible). : Remove affected clothing and wash a warm water rinse. : Rinse immediately with plenty of water persist.	22.25 9.5 9.5 nconscious person. I person to rest. Il exposed skin area er. Obtain medical att	Not classified Not classified Not classified If you feel unwell, seek medical advid with mild soap and water, followed to the tention if pain, blinking or redness	
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 irst-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Most important symptoms and effects, both acute and delayed 	Ao labeling applicable	Product identifier (CAS No) 97-53-0 (CAS No) 106-24-1 (CAS No) 122-70-3 s : Never give anything by mouth to an unic (show the label where possible). : Assure fresh air breathing. Allow the label where possible). : Remove affected clothing and wash a warm water rinse. : Rinse immediately with plenty of water persist. : Rinse mouth. Do NOT induce vomitin	22.25 9.5 9.5 nconscious person. I person to rest. Il exposed skin area er. Obtain medical att g. Obtain emergency	Not classified Not classified Not classified If you feel unwell, seek medical advid with mild soap and water, followed to the set of the set	

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	y, March 26, 2012 / Rules and Regulations
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the s	ubstance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Pro	duct is intended for outside use only.
6.3. Methods and material for containn	nent and cleaning up
Methods for cleaning up	: Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persona	al protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and
	when leaving work.
7.2. Conditions for safe storage, include	ding any incompatibilities
7.2. Conditions for safe storage, include Storage conditions	: Store in original container.
Storage conditions	
	: Store in original container.
Storage conditions Incompatible products Incompatible materials	Store in original container.Strong bases. Strong acids.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s)	Store in original container.Strong bases. Strong acids.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available	 Store in original container. Strong bases. Strong acids. Sources of ignition.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per	 Store in original container. Strong bases. Strong acids. Sources of ignition.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters	 Store in original container. Strong bases. Strong acids. Sources of ignition.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per	 Store in original container. Strong bases. Strong acids. Sources of ignition.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available	 Store in original container. Strong bases. Strong acids. Sources of ignition.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available	 Store in original container. Strong bases. Strong acids. Sources of ignition.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls	 Store in original container. Strong bases. Strong acids. Sources of ignition.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment	Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection : Avoid all unnecessary exposure.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection	 Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection Avoid all unnecessary exposure. Wear protective gloves.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection	 Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information	 Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemical	 Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. properties
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Other information SECTION 9: Physical and chemical 9.1.	 Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. properties chemical properties
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state	 Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection sonal protection Avoid all unnecessary exposure. Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. properties chemical properties Solid
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance	 Store in original container. Strong bases. Strong acids. Sources of ignition. Sonal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. properties Solid Whitish waxy like lure.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Color	 Store in original container. Strong bases. Strong acids. Sources of ignition. sonal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. properties Chemical properties Solid Whitish waxy like lure. White to yellow.
Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/per 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance	 Store in original container. Strong bases. Strong acids. Sources of ignition. Sonal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. properties Solid Whitish waxy like lure.

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Odor threshold	: No data available
рН	: 5-7
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 190 °C closed cup
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.05
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

Other information 9.2.

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Not established.
10.4. Conditions to avoid
Extremely high or low temperatures.
10.5. Incompatible materials
Strong acids. Strong bases.
10.6. Hazardous decomposition products
Carbon monoxide.

SECTION 11: Toxicological information 11.1. Information on toxicological effects

Eeugenol (97-53-0)		
LD50 oral rat	2680 mg/kg (Rat)	
Geraniol (106-24-1)		
LD50 oral rat	3600 mg/kg (Rat)	
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)	
Skin corrosion/irritation	: Not classified	
	pH: 5 - 7	
Serious eye damage/irritation	: Not classified	
	pH: 5 - 7	
Respiratory or skin sensitization	: Not classified	
D		0/5

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Eugenol (97-53-0)	
IARC group	3 - Not Classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	

SECTION 12: Ecological informa	tion
12.1. Toxicity	
Eugenol (97-53-0)	
LC50 fish 1	24 mg/l (96 h; Pimephales promelas)
Geraniol (106-24-1)	
LC50 fish 1	> 9.8 mg/l (96 h; Brachydanio rerio)
EC50 other aquatic organisms 1	144 mg/l (Activated sludge)
LC50 fish 2	< 18.9 mg/l
2.2. Persistence and degradability	
Bonide Beetle Bagger Japanese Beetle	Тгар
Persistence and degradability	Not established.
Eugenol (97-53-0)	
Persistence and degradability	Biodegradability in water: no data available.
Geraniol (106-24-1)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.9 g O ² /g substance
2.3. Bioaccumulative potential	
Bonide Beetle Bagger Japanese Beetle	Тгар
Bioaccumulative potential	Not established.
Eugenol (97-53-0)	
Log Pow	2.27
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Geraniol (106-24-1)	
Bioaccumulative potential	No bioaccumulation data available.
2.4. Mobility in soil	
No additional information available	
2.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal considera	ations
3.1. Waste treatment methods	

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information	
In accordance with DOT	
No dangerous good in sense of transport regulations	

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Additional information

Other information

: No supplementary information available.

SECTION 15: Regulatory information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Read directions and Precautionary Statements on box and package label before use.

15.1. US Federal regulations

No additional information available

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.